



LOGO!Power/1AC/15VDC/4A

LOGO!Power 15 V / 4 A stabilized power supply input: 100-240 V AC  
output: 15 V DC / 4 A \*Ex approval no longer available\*

| Input  |  |
|--|--|
| Input  | 1-phase AC or DC   |
| Rated voltage value $V_{in}$ rated             | 100 ... 240 V  |
| Voltage range AC                               | 85 ... 264 V   |
| input voltage                                  |  |
| • at DC  | 110 ... 300 V  |
| Wide-range input                               | Yes  |
| Overvoltage resistance                         | 300 V AC for 1 s   |
| Mains buffering                                | at $V_{in} = 187$ V  |
| Mains buffering at $I_{out}$ rated, min.       | 40 ms; at $V_{in} = 187$ V   |
| Rated line frequency 1                         | 50 Hz  |
| Rated line frequency 2                         | 60 Hz  |
| Rated line range                               | 47 ... 63 Hz   |
| input current                                  |  |
| • at rated input voltage 120 V                 | 1.24 A   |
| • at rated input voltage 230 V                 | 0.68 A   |
| Switch-on current limiting (+25 °C), max.      | 55 A   |
| $I^2t$ , max.                                  | 3 A <sup>2</sup> ·s  |
| Built-in incoming fuse                         | internal   |
| Protection in the mains power input (IEC 898)  | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |
| Output   |  |
| Output   | Controlled, isolated DC voltage  |
| Rated voltage $V_{out}$ DC                     | 15 V   |
| • output voltage at output 1 at DC rated value | 15 V   |
| Total tolerance, static ±                      | 3 %  |
| Static mains compensation, approx.             | 0.1 %  |
| Static load balancing, approx.                 | 0.1 %  |
| Residual ripple peak-peak, max.                | 200 mV   |
| Residual ripple peak-peak, typ.                | 30 mV  |
| Spikes peak-peak, max. (bandwidth: 20 MHz)     | 300 mV   |
| Spikes peak-peak, typ. (bandwidth: 20 MHz)     | 50 mV  |
| Adjustment range                               | 10.5 ... 16.1 V  |
| product function output voltage adjustable     | Yes  |
| Output voltage setting                         | via potentiometer  |
| Status display                                 | Green LED for output voltage OK  |
| On/off behavior                                | No overshoot of $V_{out}$ (soft start)   |
| Startup delay, max.                            | 0.5 s  |
| Voltage rise, typ.                             | 100 ms   |

|   |   |
|---|---|
| Rated current value I <sub>out</sub> rated                                      | 4 A   |
| Current range   | 0 ... 4 A   |
| <ul style="list-style-type: none"> <li>Note</li> </ul>                          | +55 ... +70 °C: Derating 2%/K   |
| supplied active power typical   | 60 W  |
| Parallel switching for enhanced performance                                     | Yes   |
| Numbers of parallel switchable units for enhanced performance                   | 2   |
| <b>Efficiency</b>   |   |
| Efficiency at V <sub>out</sub> rated, I <sub>out</sub> rated, approx.           | 88.4 %  |
| Power loss at V <sub>out</sub> rated, I <sub>out</sub> rated, approx.           | 8 W   |
| power loss [W] during no-load operation maximum                                 | 0.3 W   |
| <b>Closed-loop control</b>  |   |
| Dynamic mains compensation (V <sub>in</sub> rated ±15 %), max.                  | 0.2 %   |
| Dynamic load smoothing (I <sub>out</sub> : 10/90/10 %), U <sub>out</sub> ± typ. | 3 %   |
| Load step setting time 10 to 90%, typ.  | 1 ms  |
| Load step setting time 90 to 10%, typ.  | 1 ms  |
| <b>Protection and monitoring</b>  |   |
| Output overvoltage protection   | Yes, according to EN 60950-1  |
| Current limitation, typ.  | 5 A   |
| property of the output short-circuit proof                                      | Yes   |
| Short-circuit protection  | Constant current characteristic   |
| enduring short circuit current RMS value  |   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                       | 5 A   |
| overcurrent overload capability in normal operation                             | overload capability 150% I <sub>out</sub> rated typ. 200 ms   |
| Overload/short-circuit indicator  | -   |
| measuring point for output current  | 45 mV = <sup>^</sup> 4 A  |
| overcurrent overload capability when switching on                               | 150% I <sub>out</sub> rated typ. 200 ms   |
| <b>Safety</b>   |   |
| Primary/secondary isolation   | Yes   |
| galvanic isolation  | Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178  |
| Protection class  | Class II (without protective conductor)   |
| Degree of protection (EN 60529)   | IP20  |
| <b>Approvals</b>  |   |
| CE mark   | Yes   |
| UL/cUL (CSA) approval   | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) |
| certificate of suitability NEC Class 2  | Yes   |
| CB approval   | Yes   |
| certificate of suitability EAC approval   | Yes   |
| Marine approval   | ABS, BV, DNV GL, LRS  |
| <b>EMC</b>  |   |
| Emitted interference  | EN 55022 Class B  |
| Supply harmonics limitation   | not applicable  |
| Noise immunity  | EN 61000-6-2  |
| <b>environmental conditions</b>   |   |
| ambient temperature   |   |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>              | -25 ... +70 °C  |
| <ul style="list-style-type: none"> <li>Note</li> </ul>                          | with natural convection   |
| <ul style="list-style-type: none"> <li>during transport</li> </ul>              | -40 ... +85 °C  |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>                | -40 ... +85 °C  |
| Humidity class according to EN 60721  | Climate class 3K3, 5 ... 95% no condensation  |
| <b>Mechanics</b>  |   |
| Connection technology   | screw-type terminals  |
| Connections   |   |
| <ul style="list-style-type: none"> <li>Supply input</li> </ul>                  | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded   |
| <ul style="list-style-type: none"> <li>Output</li> </ul>                        | +, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>   |
| <ul style="list-style-type: none"> <li>Auxiliary</li> </ul>                     | -   |
| width of the enclosure  | 54 mm   |

|  |   |
|--|---|
| height of the enclosure                                  | 90 mm   |
| depth of the enclosure                                   | 53 mm   |
| required spacing   |   |
| • top  | 20 mm   |
| • bottom   | 20 mm   |
| • left   | 0 mm  |
| • right  | 0 mm  |
| Weight, approx.  | 0.2 kg  |
| product feature of the enclosure housing can be lined up | Yes   |
| Installation   | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions           |
| MTBF at 40 °C  | 2 566 680 h   |
| other information  | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

